

FIG. 3

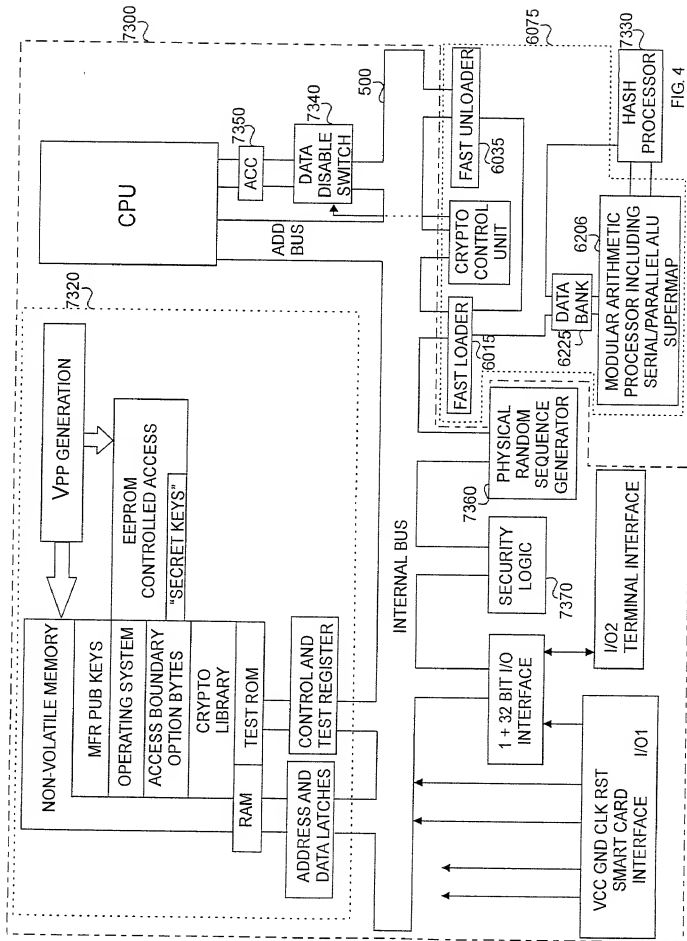


FIG. 4

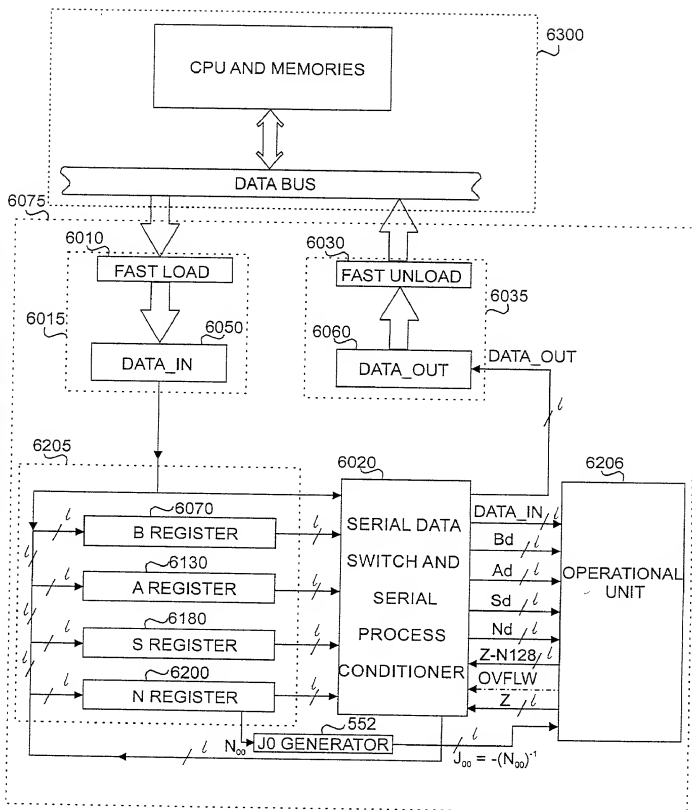


FIG. 5

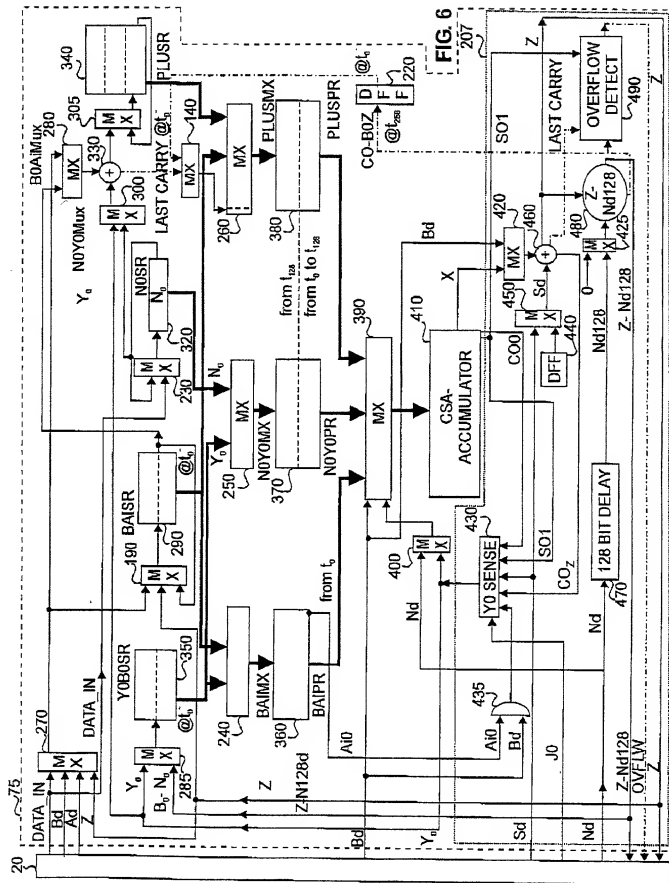


FIG. 7A

OPERATIONAL UNIT - SERIAL PROCESSOR

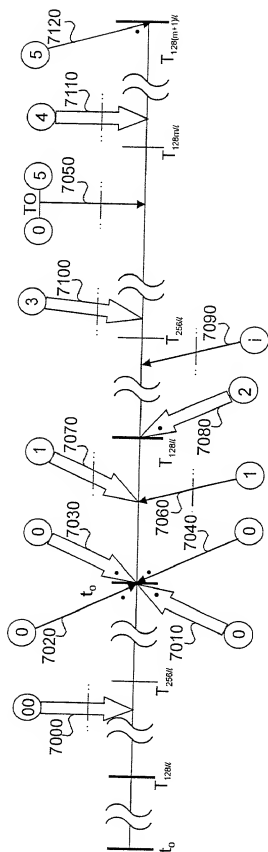


FIG. 7B

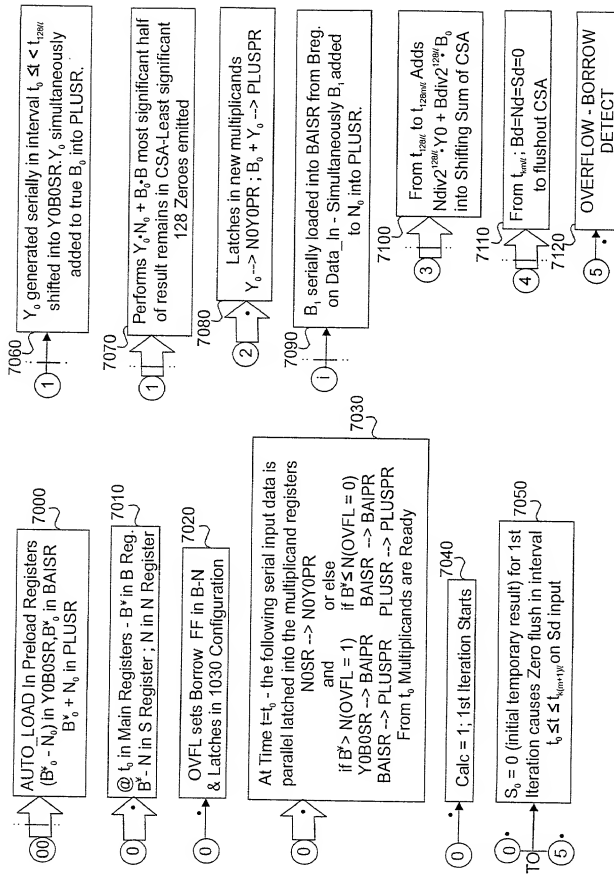


FIG. 7C

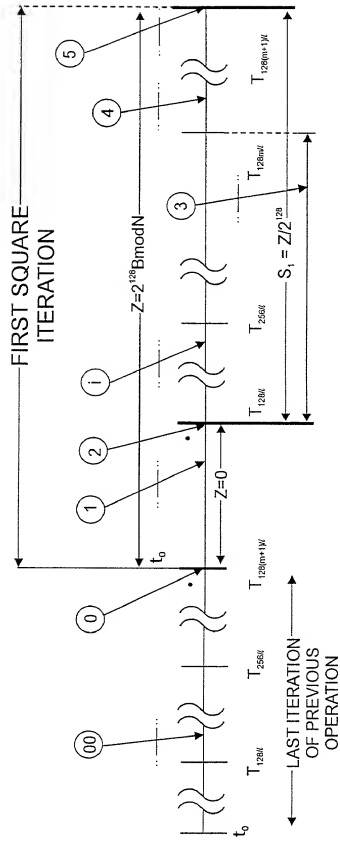


FIG. 7D

	N_0	N_0^{-1}	$-(N_0^{-1})$
1	0001	0001	1111
3	0011	1011	0101
5	0101	1101	0011
7	0111	0111	1001
9	1001	1001	0111
11	1011	0011	1101
13	1101	0101	1011
15	1111	1111	0001

$\mathcal{S} = 1$
GF(p)
 $\ell = 4$

	N_0	$-N_0^{-1} = N_0^{-1}$
1	0001	0001
3	0011	1111
5	0101	0101
7	0111	1011
9	1001	1001
11	1011	0111
13	1101	1101
15	1111	0011

$\mathcal{S} = 0$
No Carry
GF(2^n)
 $\ell = 4$

$\mathcal{S} = 1$
GF(p)
 $\ell = 2$

N_0	N_0^{-1}	$-N_0^{-1}$
01	01	11
11	11	01

$\mathcal{S} = 0$
No Carry
GF(2^n)
 $\ell = 2$

N_0	N_0^{-1}
01	01
11	11

FIG. 8A

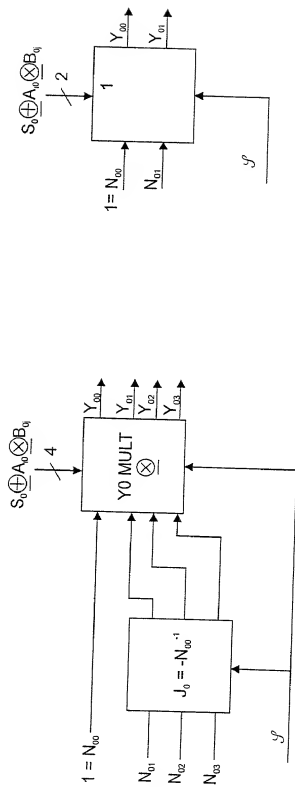


FIG. 8B